This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Canceled)

2. (Currently amended) The method of claim ~~1~~ 10, wherein the at least one suitable operating point is arbitrarily selected.

3. (Currently amended) The method of claim ~~1~~ 10, wherein the adaptation is performed every time the vehicle is started up from a standstill.

4. (Currently amended) The method of claim ~~1~~ 10, wherein the adaptation is performed with every gear shift.

5. (Currently amended) The method of claim ~~1~~ 10, wherein the adaptation is performed on at least one model parameter in a model parameter set.

6. (Original) The method of claim 5, wherein the at least one model parameter comprises a point of incipient frictional engagement of the automated clutch.

7. (Original) The method of claim 5, wherein the at least one model parameter comprises a friction coefficient of the automated clutch.

8. (Original) The method of claim 7, wherein the at least one model parameter further comprises a curve shape of a characteristic curve of the automated clutch.

9. (Currently amended) The method of claim ~~1~~ 12, wherein the adaptation of the characteristic curve is based on at least one input variable.

10. (Currently amended) ~~The method of claim 9~~ A method of controlling an automated clutch of a vehicle, comprising the step of adapting a characteristic curve of the clutch through an electronic clutch management system, wherein the adaptation is performed under at least one suitable set of operating conditions, said suitable set of operating conditions being represented by at least one suitable operating point, wherein:

the adaptation of the characteristic curve is based on at least one input variable; and

the at least one input variable comprises at least one of an engine rpm-rate (n_{engine}), an effective engine torque (M_{engine}), and a clutch actuator position (X_{clutch}).

11. (Original) The method of claim 10, wherein at least one delay block (T) is used for the adaptation of said characteristic curve, and wherein said delay block serves to compensate for a time offset due to differences in the speed of detection and transmission of different input variables.

12. (Currently amended) ~~The method of claim 1~~ A method of controlling an automated clutch of a vehicle, comprising the step of adapting a characteristic curve of the clutch through an electronic clutch management system, wherein the adaptation is performed under at least one suitable set of operating conditions, said suitable set of operating conditions being represented by at least one suitable operating point, wherein an adaptation algorithm is used for the adaptation of said characteristic curve, and wherein the adaptation algorithm performs adaptations of signals and parameters depending on the current operating point of the vehicle.

13. (Original) The method of claim 12, wherein the adaptation algorithm employs at least one correction term.

14. (Original) The method of claim 13, wherein the at least one correction term comprises a correction for the rotary acceleration ($d\omega_{\_engine}/dt$) of the engine which serves to avoid a divergence between the model values and the actual values.

15. (Original) The method of claim 13, wherein the at least one correction term comprises an engine torque correction value (ΔM_{engine}), which serves to take signal errors of the engine torque (M_{engine}) into account.

16. (Original) The method of claims 13, wherein the at least one correction term comprises a correction value (Δ_{TuP}) for the clutch actuator displacement.

17. (Original) The method of claim 13, wherein the at least one correction term comprises a characteristic curve parameter (CC parameter) which serves to adapt the friction coefficient of the automated clutch.

18. (Original) The method of claim 17, wherein the CC parameter comprises a vector quantity.

19. (Original) The method of claim 12, wherein a parameter identification is used in the design of the adaptation algorithm.

20. (Original) The method of claim 12, wherein an Extended Kalman Filter (EKF) is used in the design of the adaptation algorithm.

21. (Original) The method of claim 12, wherein a neuro-fuzzy method is used in the design of the adaptation algorithm.

22. (Original) The method of claim 12, wherein the at least one operating point is taken into account in the design of the adaptation algorithm.

23. (Currently amended) ~~The method of claim 1~~ A method of controlling an automated clutch of a vehicle, comprising the step of adapting a characteristic curve of the clutch through an electronic clutch management system, wherein the adaptation is performed under at least one

suitable set of operating conditions, said suitable set of operating conditions being represented by at least one suitable operating point, wherein in the adaptation of the characteristic curve, a second adaptation is superimposed on a first adaptation.

24. (Original) The method of claim 23, wherein the first adaptation comprises adapting at least the friction coefficient through the steps of:

evaluating a dynamic equilibrium of the clutch and thereby determining a deviation between the torques acting on the clutch, and by

adjusting the friction coefficient in accordance with said deviation.

25. (Original) The method of claim 23, wherein the second adaptation comprises evaluating at least the shape of the characteristic curve.

26. (Currently amended) The method of claim 25, wherein evaluating said curve shape comprises

evaluating the torque deviations at predetermined operating points of the characteristic curve,

from the values of the torque deviations, determining an actual state of said curve shape,

~~establish~~ establishing a correction curve for the currently effective friction coefficient, and

~~apply~~ applying the correction curve to correct the deviations the actual characteristic curve and a nominal characteristic curve.

27. (Currently amended) The method of claim ~~1~~ 10, wherein the adaptation of the characteristic curve comprises:

during a slip phase of the clutch, computing a clutch torque based on an engine torque and on a rotary acceleration of the engine, and

comparing the computed clutch torque to a stored characteristic curve.

28. (Currently amended) ~~The method of claim 27,~~ A method of controlling an automated clutch of a vehicle, comprising the step of adapting a characteristic curve of the clutch through an electronic clutch management system, wherein the adaptation is performed under at least one suitable set of operating conditions, said suitable set of operating conditions being represented by at least one suitable operating point;

wherein the adaptation of the characteristic curve comprises:

during a slip phase of the clutch, computing a clutch torque based on an engine torque and on a rotary acceleration of the engine, and

comparing the computed clutch torque to a stored characteristic curve; and

wherein a torque equilibrium at the automated clutch is represented by the equation:

$J_{engine} * d\omega\_{engine}/dt = M_{engine} - M_{clutch}$,

wherein J_{engine} stands for a moment of inertia of the engine, $d\omega\_{engine}/dt$ stands for a rotary acceleration of the engine, M_{engine} stands for the engine torque, and M_{clutch} stands for the clutch torque.

29. (Original) The method of claim 28, wherein a clutch torque to be used in controlling the clutch and a torque error are calculated through the equation:

$M_{clutch,control} = M_{clutch} + \Delta M_{clutch}$

$\Delta M = M_{clutch,control} - (M_{engine} - J_{engine} * d\omega\_{engine}/dt)$

wherein $M_{clutch,control}$ stands for the clutch torque value used by the control unit and ΔM represents the torque error torque.

30. (Original) The method of claim 29, wherein the stored characteristic curve is corrected by the torque error.

31. (Original) The method of claim 30, wherein correcting the characteristic curve comprises adjusting a set of values representing the characteristic curve, said set of values comprising at least one of a friction coefficient and a point of incipient frictional engagement of the clutch.

32. (Original) The method of claim 29, wherein the friction coefficient lowered if the torque error is positive, and the friction coefficient is increased if the torque error is negative.

33. (Original) The method of claim 30, wherein the stored characteristic curve is described by stored curve parameters and the characteristic curve is corrected by adapting at least one of the stored curve parameters.

34. (Original) The method of claim 33, wherein said adaptation of the at least one of the stored curve parameters is performed incrementally.

35. (Currently amended) ~~The method of one of 27,~~ A method of controlling an automated clutch of a vehicle, comprising the step of adapting a characteristic curve of the clutch through an electronic clutch management system, wherein the adaptation is performed under at least one suitable set of operating conditions, said suitable set of operating conditions being represented by at least one suitable operating point;

wherein the adaptation of the characteristic curve comprises:

during a slip phase of the clutch, computing a clutch torque based on an engine torque and on a rotary acceleration of the engine, and

comparing the computed clutch torque to a stored characteristic curve; and

wherein an integrating method is used in the adaptation of the characteristic curve.

36. (Original) The method of claim 35, wherein the integrating method comprises integration of torque signals to determine a model engine rpm-rate through the equation:

$$\omega_{\_engine,model} = \frac{1}{J_{engine}} \int (M_{clutch,control} - M_{engine}) \, dt$$

wherein

$\omega_{\_engine,model}$ = model engine rpm-rate.

37. (Original) The method of claim 36, wherein the adaptation comprises the steps of comparing the model engine rpm-rate and the actual engine rpm-rate, and altering the characteristic curve based on deviations detected in said comparison.

38. (Original) The method of claim 37, wherein altering the characteristic curve comprises altering at least one descriptive quantity of the characteristic curve, said characteristic quantities comprising at least one of the friction coefficient and the point of incipient frictional engagement.

39. (Original) The method of claim 38, wherein the step of altering the characteristic curve is performed incrementally in order to avoid an unstable feedback condition.

40. (Original) The method of claim 38, wherein the friction coefficient is adapted in a plurality of adaptation steps for predetermined constraint points of a friction characteristic.

41. (Original) The method of claim 40, wherein said predetermined constraint points are located in a range of high clutch torque values.

42. (Original) The method of claim 41, wherein the friction coefficient is further adapted by an additional step of transferring the adaptation that was made for the predetermined constraint points in the range of high torque values to other constraint points within a time period that includes the time during and after a full load cycle.